

# ACT Profile Report - State

Graduating Class 2009  
West Virginia





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This report provides information about the performance of your 2009 graduating seniors who took the ACT as sophomores, juniors, or seniors; and self-reported at the time of testing that they were scheduled to graduate in 2009 and tested under standard time conditions.

This report focuses on:

**Performance** - student test performance in the context of college readiness

**Access** - number of your graduates exposed to college entrance testing and the percent of race/ethnicity participation

**Course Selection** - percent of students pursuing a core curriculum

**Course Rigor** - impact of rigorous coursework on achievement

**College Readiness** - percent of students meeting ACT College Readiness Benchmark Scores in each content area

**Awareness** - extent to which student aspirations match performance

**Articulation** - colleges and universities to which your students send test results

Each year, test data for a school, district, and the state represents a different cohort of students. ACT encourages educators to focus on trends (3, 5, 10 years), not year-to-year changes. Such changes can represent normal – even expected – fluctuations. On the other hand, trend lines offer more insight into what is happening in a school, district, or the state.

Further, ACT encourages educators to measure student performance in the context of college readiness measures. The focus should be on the number and percentage of students meeting or exceeding ACT's College Readiness Benchmark Scores, a measure that is much more meaningful and understandable than an average composite score for a group of students.

**The ACT is a curriculum-based measure of college readiness. ACT components include:**

- Tests of academic achievement in English, math, reading, science, and writing (optional)
- High school grade and course information
- Student Profile Section
- Career Interest Inventory

**The ACT:**

Every few years, ACT conducts the **ACT National Curriculum Survey** to ensure its curriculum-based assessment tools accurately measure the skills high school teachers teach and instructors of entry-level college courses expect. The ACT is the only college readiness test designed to reflect the results of such a survey.

ACT's **College Readiness Standards** are sets of statements intended to help students, parents and educators understand the meaning of test scores. The standards relate test scores to the types of skills needed for success in high school and beyond. They serve as a direct link between what students have learned and what they are ready to do next. The ACT is the only college readiness test for which scores can be tied directly to standards.

Only the ACT reports **College Readiness Benchmark Scores** – A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college courses, which include English Composition, Algebra, Social Science and Biology. These scores were empirically derived based on the actual performance of students in college. The College Readiness Benchmark Scores are:

College Course/Course Area	ACT Test	Benchmark Score
English Composition	English	18
Algebra	Mathematics	22
Social Sciences	Reading	21
Biology	Science	24

For more information, go to [www.act.org](http://www.act.org)

## How to Improve Scores and Increase College Readiness

17% of your students met all four ACT College Readiness Benchmark Scores (Table 1.1). To improve students' scores and increase the percentage of students identified as college ready, ACT suggests:

**PROVIDING ACCESS FOR ALL STUDENTS TO TAKE THE ACT:** 11,696 of your students are included in this report (the 'cohort'). Increasing access insures that more students have the opportunity to consider college and allows the reader to use this report to evaluate how well courses and instructional programs are preparing students for college and work.

**MAKING CORE CURRICULUM A PRIORITY:** Emphasize the need for all students to develop college and work ready skills, regardless of postsecondary aspirations. 65% of the students in the cohort reported taking courses that would be considered 'Core or More' (Table 1.4).

**MAKING SURE STUDENTS ARE TAKING THE RIGHT KINDS OF COURSES:** Table 3.2 reports 5% of the cohort took less than three years of math courses. Of these students, 3% were college ready. 16% of the cohort reported taking the minimum math core (Algebra I, Algebra II, and Geometry). 5% of these students were college ready. In comparison, 38% of the students who advanced beyond minimum math core were college ready. Getting more students ready for Algebra prior to 9th grade will increase the chances that students will be prepared for and take advanced-level math courses.

Similarly, Table 3.2 reports 29% of the cohort took less than three years of natural science courses. 11% of these students were college ready. In comparison, 31% of students who took at least three years of science coursework were college ready.

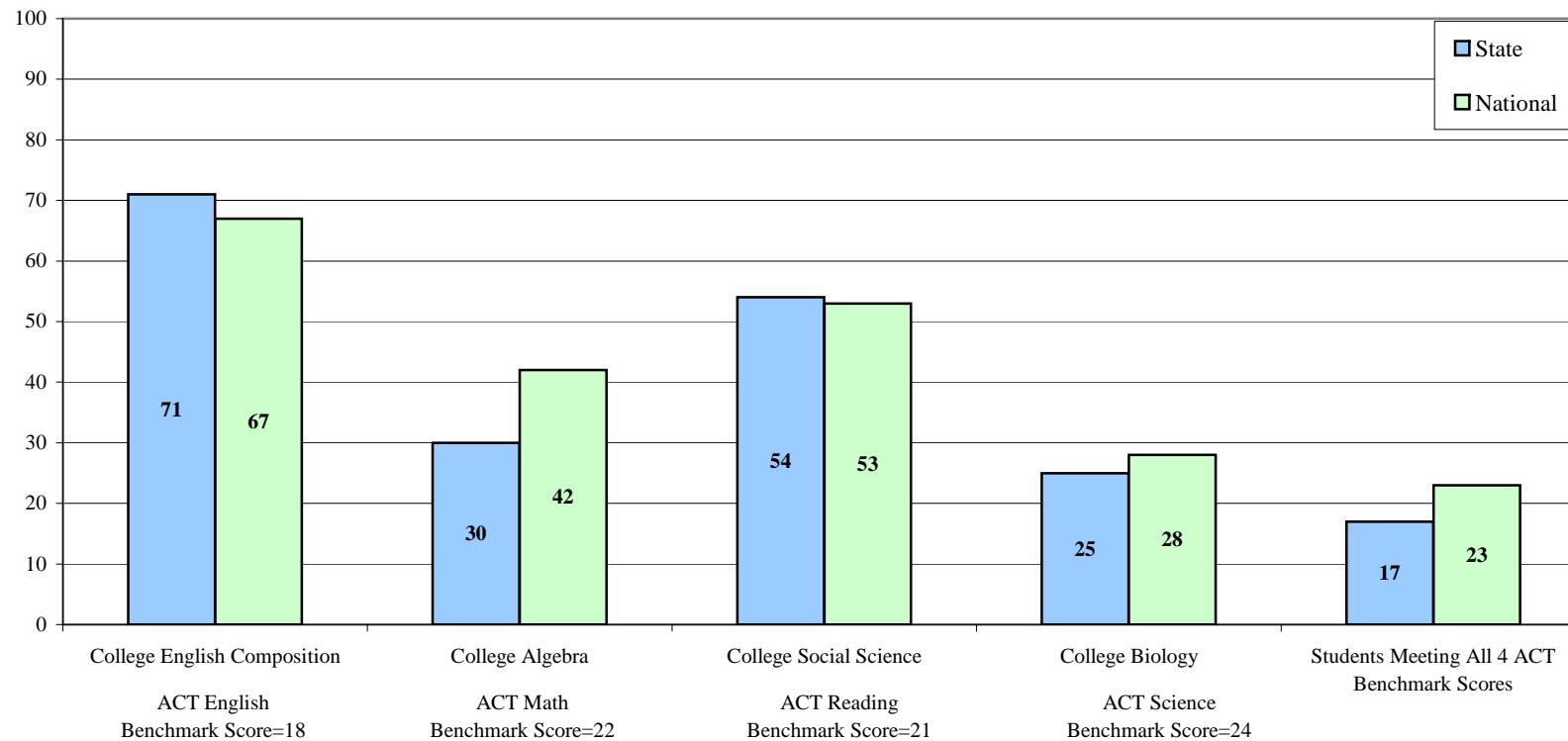
**EVALUATING RIGOR OF COURSES:** Table 2.6 reports the percentage of students falling in each of the ACT College Readiness Standards score ranges. For example, approximately 58% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College Readiness Standards at [www.act.org/standard](http://www.act.org/standard).

**PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS:** Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 847-634-2560.

# Section I

# Executive Summary

**Figure 1.1. Percent of Your Students Ready for College-Level Coursework**

A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college course.

**Table 1.1. Five Year Trends—Percent of Students Meeting College Readiness Benchmarks**

Year	Number of Students Tested		Percent Meeting Benchmarks									
	State	National	English		Mathematics		Reading		Science		Meeting All Four	
			State	National	State	National	State	National	State	National	State	National
2005	11,451	1,186,251	71	68	28	41	49	51	22	26	15	21
2006	10,990	1,206,455	72	69	30	42	52	53	22	27	16	21
2007	11,480	1,300,599	72	69	30	43	50	53	22	28	16	23
2008	11,603	1,421,941	72	68	31	43	52	53	23	28	16	22
<b>2009</b>	<b>11,696</b>	<b>1,480,469</b>	<b>71</b>	<b>67</b>	<b>30</b>	<b>42</b>	<b>54</b>	<b>53</b>	<b>25</b>	<b>28</b>	<b>17</b>	<b>23</b>

**Table 1.2. Five Year Trends—Average ACT Scores**

Year	Number of Students Tested		Average ACT Scores									
	State	National	English		Mathematics		Reading		Science		Composite	
			State	National	State	National	State	National	State	National	State	National
2005	11,451	1,186,251	20.5	20.4	19.3	20.7	20.9	21.3	20.4	20.9	20.4	20.9
2006	10,990	1,206,455	20.8	20.6	19.6	20.8	21.2	21.4	20.5	20.9	20.6	21.1
2007	11,480	1,300,599	20.8	20.7	19.5	21.0	21.2	21.5	20.5	21.0	20.6	21.2
2008	11,603	1,421,941	20.8	20.6	19.6	21.0	21.4	21.4	20.5	20.8	20.7	21.1
<b>2009</b>	<b>11,696</b>	<b>1,480,469</b>	<b>20.8</b>	<b>20.6</b>	<b>19.6</b>	<b>21.0</b>	<b>21.4</b>	<b>21.4</b>	<b>20.5</b>	<b>20.9</b>	<b>20.7</b>	<b>21.1</b>

**Table 1.3. Five Year Trends—Average ACT Scores Nationwide**

Year	Number of Students Tested		Average ACT Scores					
	State	National	English	Mathematics	Reading	Science	Composite	
			State	National	State	National	State	National
2005	1,186,251		20.4	20.7	21.3		20.9	20.9
2006	1,206,455		20.6	20.8	21.4		20.9	21.1
2007	1,300,599		20.7	21.0	21.5		21.0	21.2
2008	1,421,941		20.6	21.0	21.4		20.8	21.1
<b>2009</b>	<b>1,480,469</b>		<b>20.6</b>	<b>21.0</b>	<b>21.4</b>		<b>20.9</b>	<b>21.1</b>

**Table 1.4. Five Year Trends—Average ACT Scores by Level of Preparation**

Year	Number of Students Tested		Percent <sup>2</sup>		English		Mathematics		Reading		Science		Composite	
	Core or More <sup>1</sup>	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core
2005	3,183	7,578	28	66	22.1	20.0	20.7	18.8	22.3	20.4	21.5	20.0	21.8	19.9
2006	2,954	7,293	27	66	22.4	20.2	20.9	19.1	22.5	20.7	21.6	20.1	22.0	20.2
2007	2,846	7,401	25	64	22.4	20.1	21.1	18.9	22.7	20.6	21.9	20.0	22.1	20.1
2008	5,884	5,232	51	45	22.1	19.5	20.7	18.3	22.4	20.3	21.5	19.4	21.8	19.5
<b>2009</b>	<b>7,564</b>	<b>3,879</b>	<b>65</b>	<b>33</b>	<b>21.9</b>	<b>19.0</b>	<b>20.5</b>	<b>17.9</b>	<b>22.3</b>	<b>19.9</b>	<b>21.4</b>	<b>19.0</b>	<b>21.7</b>	<b>19.1</b>

<sup>1</sup>"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

<sup>2</sup>Percent of all students tested. Numbers will not add up to 100% due to student non-response.

**Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity**

	2005			2006			2007			2008			2009		
	N	%	Avg												
All Students	11,451	100	20.4	10,990	100	20.6	11,480	100	20.6	11,603	100	20.7	11,696	100	20.7
African American/Black	350	3	17.5	333	3	17.7	344	3	17.5	374	3	17.3	391	3	17.5
American Indian/Alaska Native	34	0	20.1	47	0	20.3	44	0	19.6	38	0	19.7	41	0	19.8
Caucasian American/White	10,274	90	20.5	9,600	87	20.7	9,825	86	20.7	10,366	89	20.7	10,503	90	20.8
Hispanic	65	1	19.8	86	1	21.3	84	1	20.6	88	1	20.1	120	1	20.2
Asian American/Pacific Islander	101	1	23.0	110	1	23.4	85	1	23.0	82	1	23.5	126	1	23.3
Other/No Response	627	5	20.8	814	7	20.8	1,098	10	21.1	655	6	21.3	515	4	20.9

# Section II

# Academic Achievement

**Table 2.1. ACT Score Distributions, Cumulative Percentages (CP<sup>1</sup>), and Score Averages**

ACT Scale Score	English		Mathematics		Reading		Science		Composite		ACT Scale Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	17	100	18	100	76	100	16	100	7	100	36
35	91	100	17	100	26	99	25	100	8	100	35
34	99	99	36	100	130	99	31	100	27	100	34
33	114	98	47	99	202	98	47	99	42	100	33
32	135	97	58	99	164	96	36	99	64	99	32
31	158	96	64	98	270	95	84	99	105	99	31
30	228	95	76	98	383	93	141	98	168	98	30
29	257	93	159	97	270	89	153	97	179	96	29
28	316	91	201	96	401	87	163	95	298	95	28
27	314	88	251	94	394	84	228	94	378	92	27
26	492	85	418	92	438	80	400	92	486	89	26
25	656	81	496	89	433	76	823	89	601	85	25
24	663	75	596	84	633	73	738	82	684	80	24
23	720	70	599	79	783	67	799	75	818	74	23
22	843	64	503	74	685	61	1,023	69	888	67	22
21	948	56	770	70	1,009	55	957	60	889	59	21
20	908	48	611	63	763	46	1,386	52	999	52	20
19	754	41	790	58	865	40	1,133	40	1,088	43	19
18	596	34	925	51	597	32	858	30	1,002	34	18
17	638	29	1,396	43	682	27	532	23	914	25	17
16	635	24	1,800	31	769	21	609	18	717	18	16
15	669	18	1,173	16	520	15	406	13	571	11	15
14	359	12	536	6	493	10	340	9	392	7	14
13	283	9	116	1	326	6	313	7	244	3	13
12	265	7	34	1	219	3	185	4	95	1	12
11	192	5	5	1	107	1	145	2	28	1	11
10	165	3	0	1	32	1	67	1	4	1	10
9	115	2	1	1	17	1	47	1	0	1	9
8	42	1	0	1	6	1	10	1	0	1	8
7	19	1	0	1	2	1	1	1	0	1	7
6	4	1	0	1	0	1	0	1	0	1	6
5	1	1	0	1	1	1	0	1	0	1	5
4	0	1	0	1	0	1	0	1	0	1	4
3	0	1	0	1	0	1	0	1	0	1	3
2	0	1	0	1	0	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Avg (SD)	20.8 (5.6)		19.6 (4.4)		21.4 (5.6)		20.5 (4.5)		20.7 (4.4)		Avg (SD)

<sup>1</sup>CP is the cumulative percent of students at or below a score point.

Note: Shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

**Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP<sup>1</sup>), and Subtest Score Averages**

ACT Scale Score	English				Reading				Mathematics								ACT Scale Score	
	Usage/ Mechanics		Rhetorical Skills		Social Studies		Arts/ Literature		Pre/Elementary Algebra		Algebra/ Coordinate Geometry		Plane Geometry/ Trigonometry					
	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP		
18	302	100	91	100	252	100	405	100	188	100	34	100	46	100	18	18		
17	358	97	85	99	364	98	323	97	352	98	44	100	19	100	17	17		
16	516	94	490	98	481	95	906	94	392	95	144	99	187	99	16	16		
15	562	90	676	94	746	91	913	86	515	92	176	98	251	98	15	15		
14	538	85	847	89	651	84	999	78	550	88	653	97	611	96	14	14		
13	832	81	1,072	81	1,010	79	543	70	720	83	598	91	976	90	13	13		
12	1,046	73	1,509	72	1,127	70	982	65	1,018	77	1,078	86	839	82	12	12		
11	1,080	64	1,337	59	1,023	60	1,494	57	1,008	68	1,238	77	1,361	75	11	11		
10	1,628	55	1,625	48	1,575	52	1,017	44	1,358	59	2,618	66	1,879	63	10	10		
9	1,283	41	1,292	34	1,389	38	853	35	1,086	48	1,880	44	1,619	47	9	9		
8	938	30	990	23	1,450	26	1,007	28	1,790	39	1,440	28	1,512	33	8	8		
7	961	22	750	14	869	14	831	19	1,706	23	885	15	821	20	7	7		
6	784	14	340	8	446	6	600	12	724	9	258	8	691	13	6	6		
5	415	7	328	5	184	3	534	7	187	2	370	6	364	8	5	5		
4	295	4	174	2	63	1	195	2	68	1	144	2	283	4	4	4		
3	125	1	82	1	46	1	73	1	26	1	92	1	165	2	3	3		
2	32	1	7	1	17	1	21	1	8	1	15	1	40	1	2	2		
1	1	1	1	1	3	1	0	1	0	1	29	1	32	1	1	1		
Avg (SD)	10.4 (3.5)		10.7 (3.0)		10.8 (3.2)		11.1 (3.7)		10.2 (3.2)		9.8 (2.6)		9.7 (2.9)		Avg (SD)			

<sup>1</sup>CP is the cumulative percent of students at or below a score point.

**Table 2.3. ACT Score Quartile Values**

Quartile	English	Mathematics	Reading	Science	Composite
Q3 (75th Percentile)	24	23	25	23	24
Q2 (50th Percentile)	21	18	21	20	20
Q1 (25th Percentile)	17	16	17	18	17

**Table 2.4. Average ACT Composite Scores for Race/Ethnicity by Level of Preparation**

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More <sup>1</sup>	Average ACT Composite Score Core or More	Average ACT Composite Score Less Than Core
State	All Students	11,696	65	21.7	19.1
	African American/Black	391	55	18.2	16.7
	American Indian/Alaska Native	41	63	21.0	18.5
	Caucasian American/White	10,503	65	21.7	19.2
	Hispanic	120	62	21.0	18.9
	Asian American/Pacific Islander	126	80	23.5	22.3
	Other/No Response	515	59	22.0	19.6
National	All Students	1,480,469	70	22.0	19.1
	African American/Black	196,149	64	17.6	15.9
	American Indian/Alaska Native	15,773	59	20.1	17.4
	Caucasian American/White	941,206	73	23.0	20.1
	Hispanic	133,569	67	19.6	17.3
	Asian American/Pacific Islander	59,093	80	23.7	21.4
	Other/No Response	134,679	63	22.2	19.0

<sup>1</sup>"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

**Table 2.5. Average ACT Scores by Race/Ethnicity**

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	20.8	19.6	21.4	20.5	20.7
	African American/Black	16.9	17.0	17.8	17.6	17.5
	American Indian/Alaska Native	19.6	19.0	21.1	19.3	19.8
	Caucasian American/White	20.9	19.6	21.5	20.6	20.8
	Hispanic	20.4	19.2	20.6	20.1	20.2
	Asian American/Pacific Islander	23.6	23.1	23.8	22.3	23.3
	Other/No Response	20.9	20.0	21.7	20.6	20.9
National	All Students	20.6	21.0	21.4	20.9	21.1
	African American/Black	16.0	17.1	16.9	17.2	16.9
	American Indian/Alaska Native	17.9	18.7	19.4	19.1	18.9
	Caucasian American/White	21.9	21.9	22.6	21.9	22.2
	Hispanic	17.7	19.1	18.9	18.8	18.7
	Asian American/Pacific Islander	22.6	24.5	22.7	22.7	23.2
	Other/No Response	20.4	21.0	21.3	20.7	20.9

**Table 2.6. Percent of Students in College Readiness Standards (CRS) Score Ranges**

Student Group	CRS Range	English		Mathematics		Reading		Science	
		N	%	N	%	N	%	N	%
State	33 to 36	321	3	118	1	434	4	119	1
	28 to 32	1,094	9	558	5	1,488	13	577	5
	24 to 27	2,125	18	1,761	15	1,898	16	2,189	19
	20 to 23	3,419	29	2,483	21	3,240	28	4,165	36
	16 to 19	2,623	22	4,911	42	2,913	25	3,132	27
	13 to 15	1,311	11	1,825	16	1,339	11	1,059	9
	01 to 12	803	7	40	0	384	3	455	4
National	33 to 36	60,269	4	45,198	3	74,801	5	26,524	2
	28 to 32	154,245	10	139,060	9	205,090	14	104,787	7
	24 to 27	251,396	17	293,477	20	226,630	15	287,693	19
	20 to 23	376,203	25	300,212	20	361,756	24	492,815	33
	16 to 19	303,385	20	495,592	33	334,831	23	367,167	25
	13 to 15	179,194	12	198,214	13	195,336	13	131,197	9
	01 to 12	155,777	11	8,716	1	82,025	6	70,286	5

**Table 2.7. Average ACT Scores by Gender**

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	5,123	44	20.3	20.3	21.5	21.1	20.9
	Females	6,554	56	21.2	19.0	21.4	20.1	20.6
	Missing	19	0	19.2	19.2	20.5	19.2	19.6
National	Males	668,165	45	20.2	21.6	21.3	21.4	21.3
	Females	808,097	55	20.9	20.4	21.4	20.4	20.9
	Missing	4,207	0	20.3	21.2	21.5	20.8	21.1

**Table 2.8. Percent of Students Meeting College Readiness Benchmark Scores by Gender**

Student Group	Gender	Percent of Students					Meet All Four
		English	Mathematics	Reading	Science	All Four	
State	Males	67	37	54	31	21	
	Females	74	25	54	20	13	
National	Males	65	47	52	33	27	
	Females	69	38	53	24	20	

**Table 2.9. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Overall High School Curriculum**

Student Group	Curriculum Taken <sup>1</sup>	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % <sup>3</sup>	Avg
State	Core or More <sup>2</sup>	7,564	78	21.9	38	20.5	61	22.3	31	21.4	22	21.7
	Less than Core	3,879	59	19.0	16	17.9	42	19.9	13	19.0	8	19.1
	Missing	253	45	16.9	10	17.2	32	18.7	13	18.2	5	17.9
National	Core or More	1,039,502	75	21.7	50	21.9	59	22.3	34	21.7	28	22.0
	Less than Core	391,458	52	18.3	25	18.9	38	19.4	16	19.2	12	19.1
	Missing	49,509	35	15.9	16	17.5	25	17.3	10	17.6	7	17.2

<sup>1</sup>"Curriculum Taken" reflects overall high school curriculum in this table.<sup>2</sup>"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.<sup>3</sup>Composite CRB% results reflect students who meet all four subject-area benchmarks.**Table 2.10. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Content-Specific Curriculum**

Student Group	Curriculum Taken <sup>1</sup>	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More	11,262	72	20.9	10,961	32	19.8	10,937	55	21.6	8,059	31	21.3
	Less than Core	243	61	19.1	521	3	15.9	548	38	19.8	3,413	12	18.8
	Missing	191	44	17.0	214	10	17.2	211	32	18.9	224	14	18.2
National	Core or More	1,367,549	70	20.9	1,334,313	46	21.4	1,287,169	55	21.7	1,206,541	32	21.5
	Less than Core	73,276	42	16.8	101,413	7	16.5	151,264	41	19.7	230,683	12	18.4
	Missing	39,644	37	16.1	44,743	17	17.5	42,036	26	17.5	43,245	11	17.7

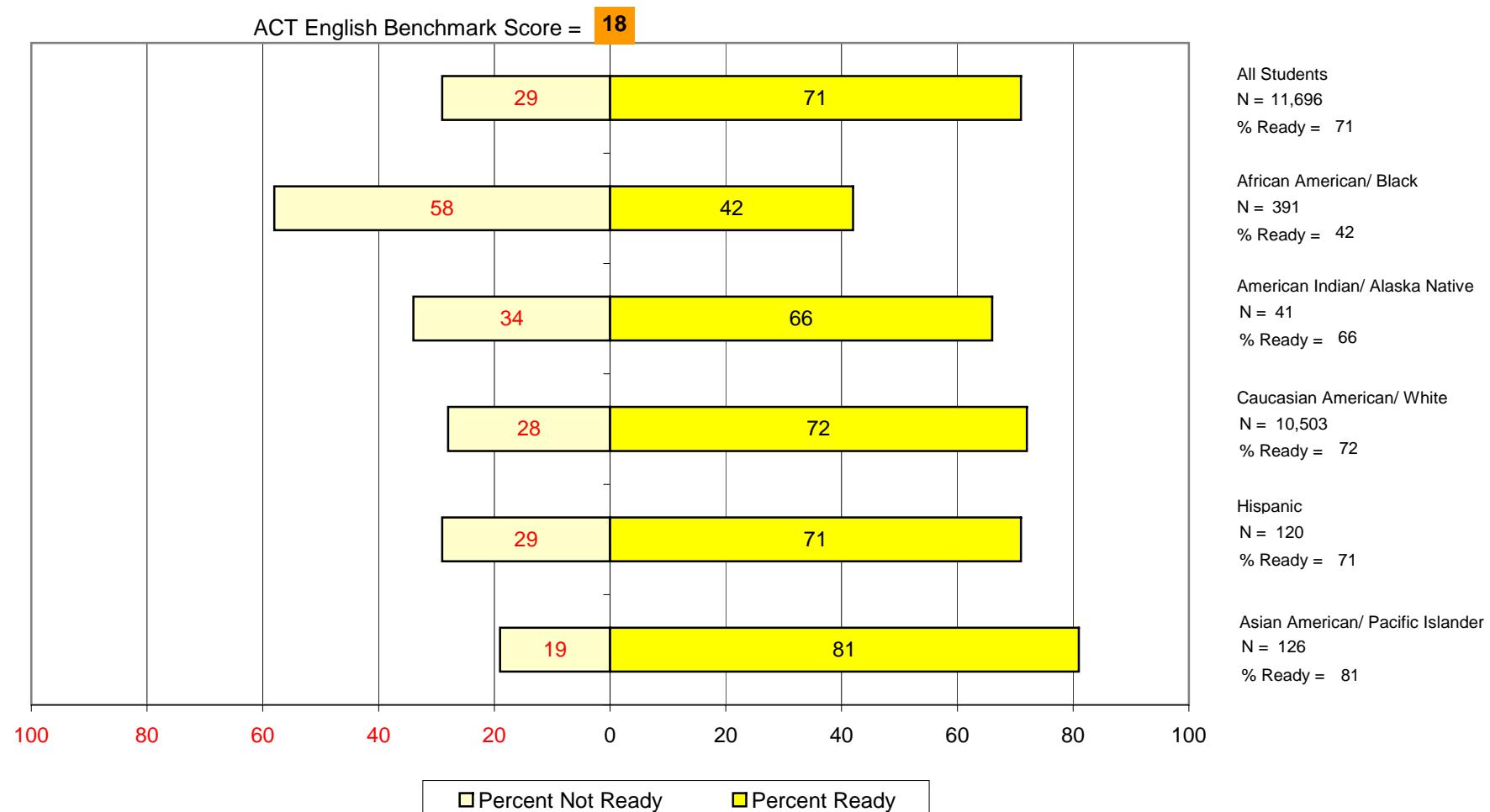
<sup>1</sup>"Curriculum Taken" reflects content-specific curriculum in this table.

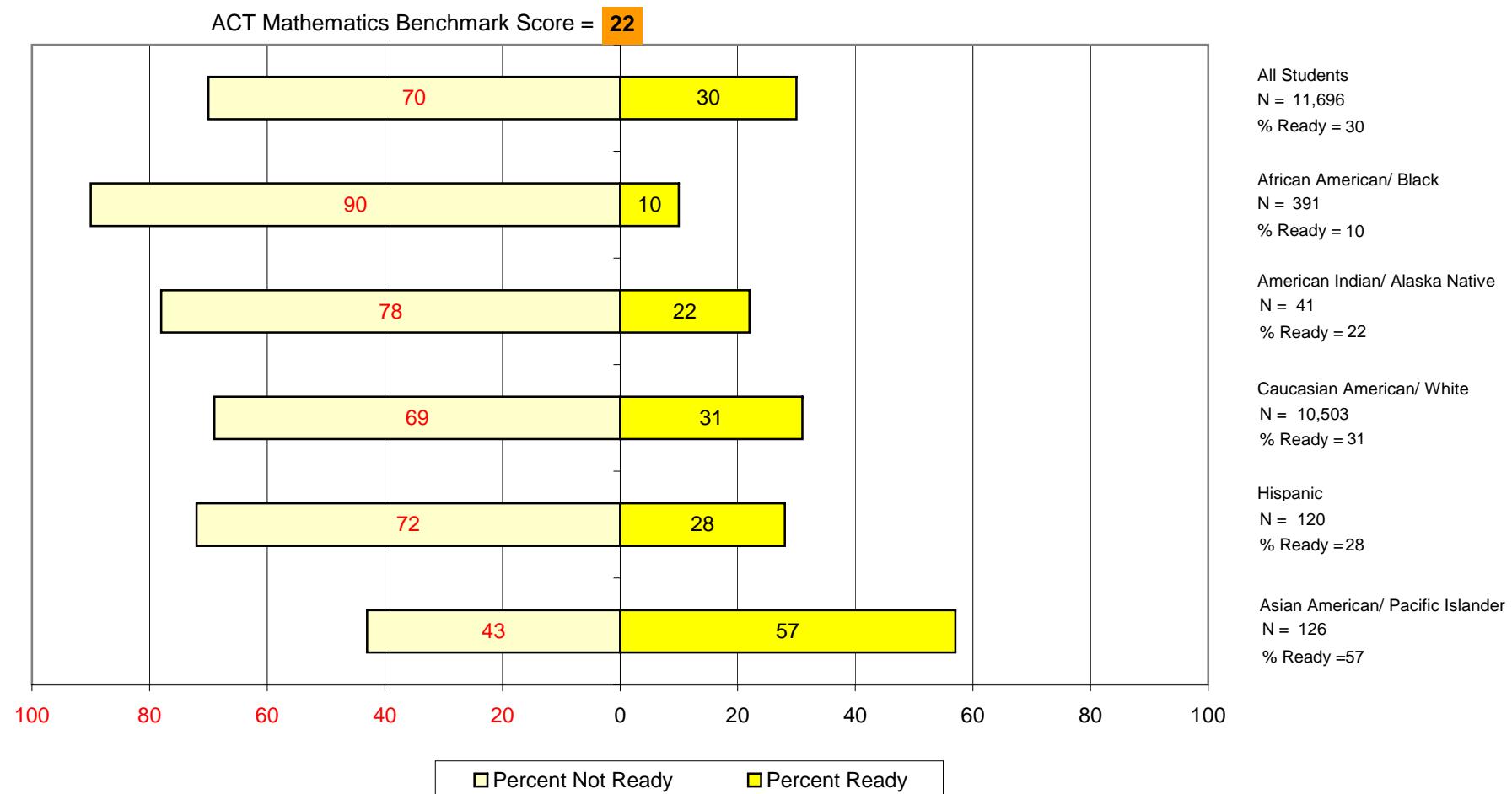
For instance, Reading "Core or More" results correspond to students taking three or more years of social studies, regardless of courses taken in other content areas.

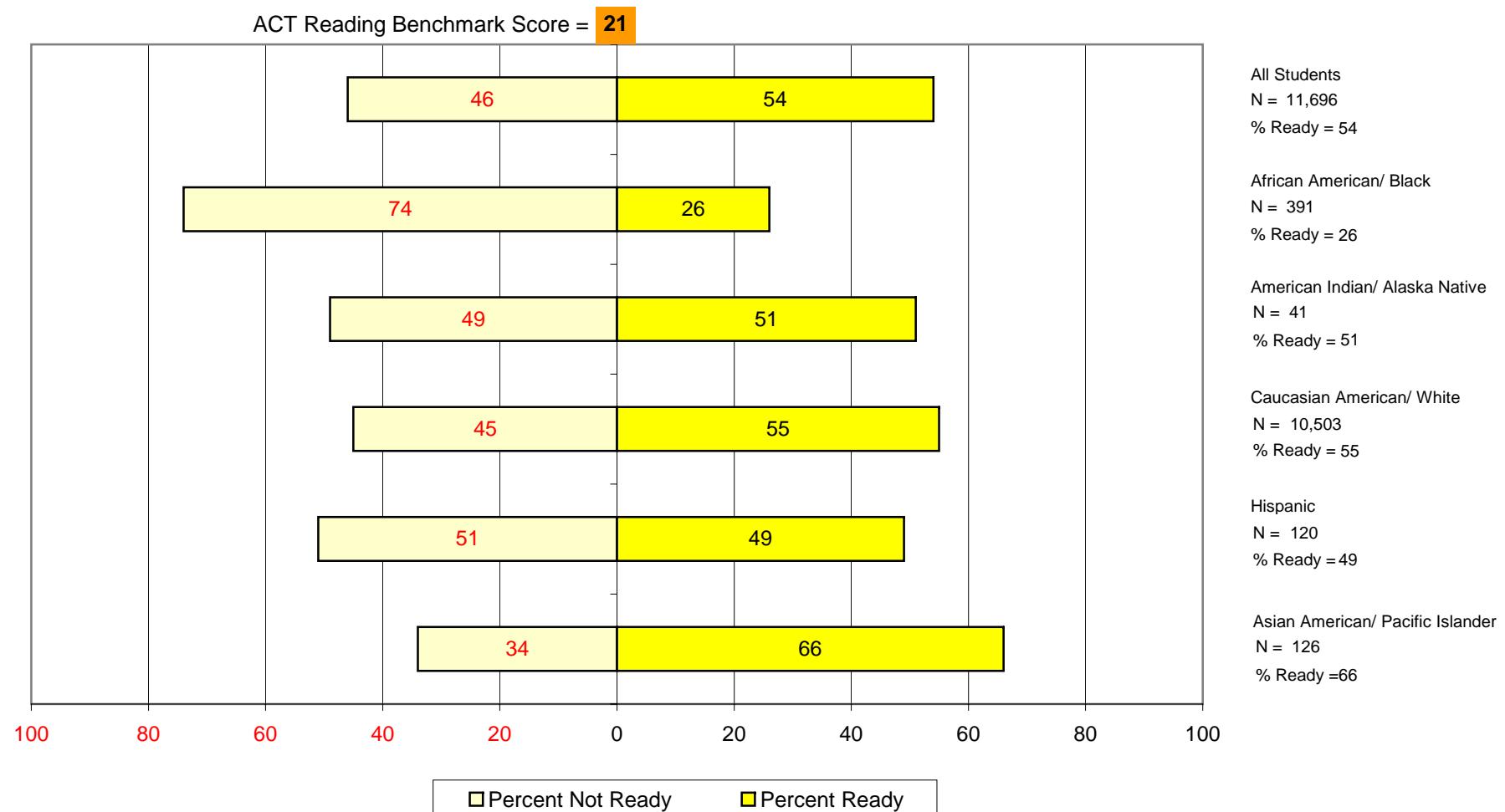
# Section III

# College Readiness and the

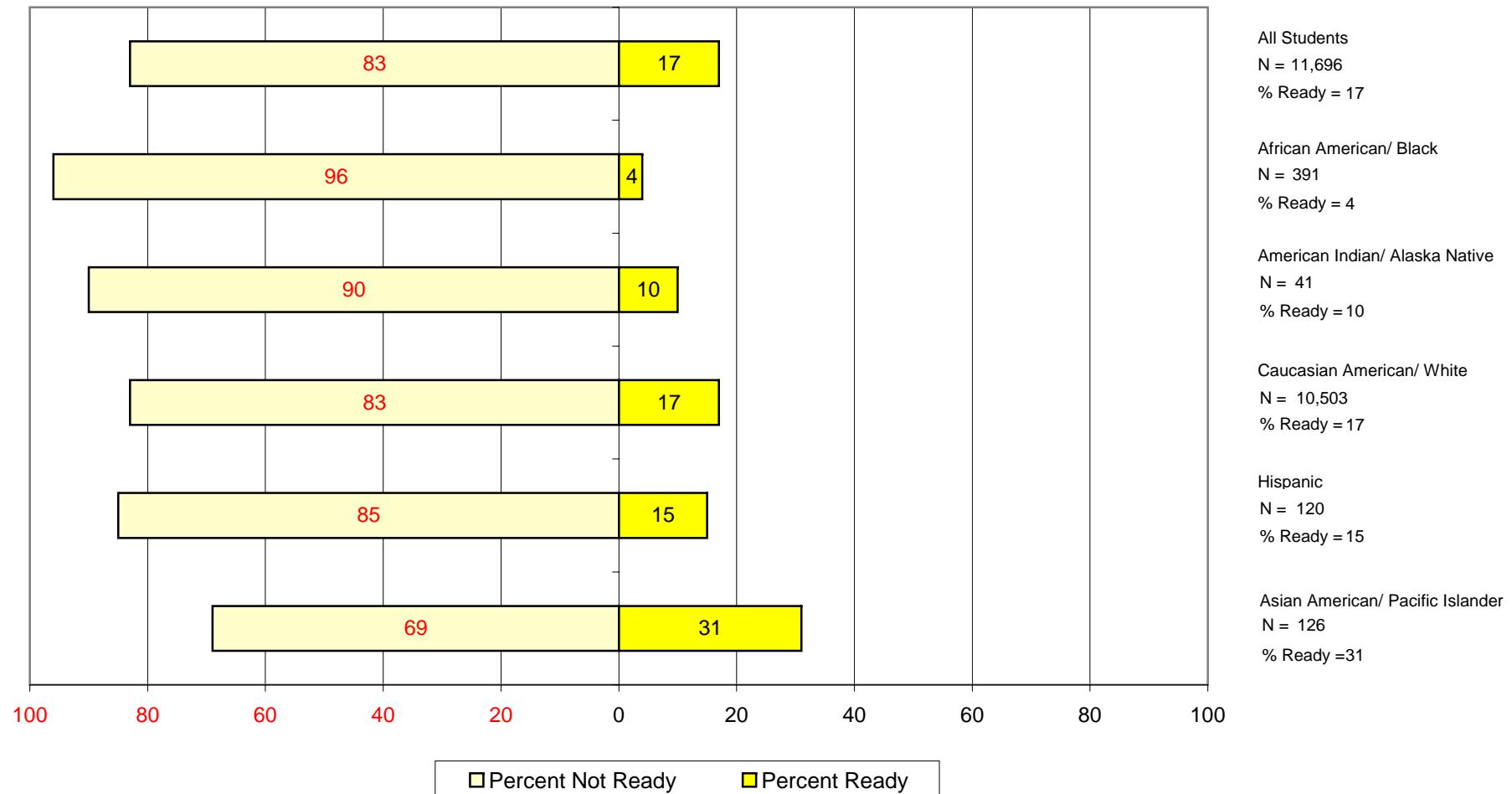
# Impact of Course Rigor

**Figure 3.1. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ENGLISH**

**Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS**

**Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING**

**Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE**

**Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR**

**Table 3.1. Average ACT Scores and Average ACT Score Changes by Common Course Patterns**

Course Pattern	All Students					Males					Females				
	N	Percent	ACT English	Course Value Added <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>			
ENGLISH COURSE PATTERN															
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	2,858	24	22.3	3.2	1,083	21	22.0	3.4	1,771	27	22.5	3.0			
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	8,404	72	20.4	1.3	3,812	74	20.0	1.4	4,579	70	20.8	1.3			
Less than 4 years of English	244	2	19.1	-	112	2	18.6	-	132	2	19.5	-			
No English course/grade information reported	190	2	17.0	-	116	2	16.9	-	72	1	17.3	-			
MATHEMATICS COURSE PATTERN	N	Percent	ACT Math	Course Value Added <sup>1</sup>	N	Percent	ACT Math	Course Value Added <sup>1</sup>	N	Percent	ACT Math	Course Value Added <sup>1</sup>			
Alg 1, Alg 2, Geom, Trig, & Calc	746	6	22.4	6.6	349	7	23.3	7.3	394	6	21.5	5.8			
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,743	15	20.8	5.0	639	12	21.4	5.4	1,103	17	20.4	4.7			
Alg 1, Alg 2, Geom, & Trig	2,069	18	18.9	3.1	805	16	19.6	3.6	1,262	19	18.4	2.7			
Alg 1, Alg 2, Geom, & Other Adv Math	1,252	11	18.0	2.2	474	9	18.7	2.7	778	12	17.6	1.9			
Other comb of 4 or more years of Math	2,950	25	22.4	6.6	1,515	30	23.1	7.1	1,432	22	21.7	6.0			
Alg 1, Alg 2, & Geom (Min. Core)	1,914	16	16.6	0.8	815	16	16.9	0.9	1,097	17	16.3	0.6			
Other comb of 3 or 3.5 years of Math	287	2	17.4	1.6	151	3	17.7	1.7	135	2	17.0	1.3			
Less than 3 years of Math	540	5	15.8	-	257	5	16.0	-	277	4	15.7	-			
No Math course/grade information reported	195	2	17.3	-	118	2	17.5	-	76	1	17.1	-			
SOCIAL SCIENCE COURSE PATTERN	N	Percent	ACT Reading	Course Value Added <sup>1</sup>	N	Percent	ACT Reading	Course Value Added <sup>1</sup>	N	Percent	ACT Reading	Course Value Added <sup>1</sup>			
US Hist, World Hist, Am Gov, & Other Hist	1,827	16	21.1	1.4	837	16	21.0	1.3	989	15	21.2	1.4			
Other comb of 4 or more years Social Science	4,513	39	22.1	2.4	1,867	36	22.2	2.5	2,641	40	22.1	2.3			
US Hist, World Hist, & Am Gov (Min. Core)	1,918	16	20.9	1.2	889	17	21.2	1.5	1,022	16	20.7	0.9			
Other comb of 3 or 3.5 years of Social Science	2,679	23	21.4	1.7	1,121	22	21.5	1.8	1,555	24	21.4	1.6			
Less than 3 years of Social Science	558	5	19.7	-	283	6	19.7	-	273	4	19.8	-			
No Soc Sci course/grade information reported	201	2	18.9	-	126	2	19.0	-	74	1	18.8	-			
NATURAL SCIENCE COURSE PATTERN	N	Percent	ACT Science	Course Value Added <sup>1</sup>	N	Percent	ACT Science	Course Value Added <sup>1</sup>	N	Percent	ACT Science	Course Value Added <sup>1</sup>			
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	3,110	27	22.3	3.5	1,525	30	23.1	4.0	1,581	24	21.6	3.0			
Bio, Chem, Phys	140	1	22.5	3.7	69	1	23.4	4.3	70	1	21.5	2.9			
Gen Sci <sup>2</sup> , Bio, Chem (Min. Core)	4,070	35	20.6	1.8	1,500	29	21.1	2.0	2,567	39	20.3	1.7			
Other comb of 3 years of Natural Science	739	6	21.2	2.4	447	9	21.7	2.6	290	4	20.4	1.8			
Less than 3 years of Natural Science	3,434	29	18.8	-	1,460	28	19.1	-	1,967	30	18.6	-			
No Nat Sci course/grade information reported	203	2	18.4	-	122	2	18.8	-	79	1	17.7	-			

<sup>1</sup>Course value added is defined as the average ACT score change compared to a less than core course sequence.<sup>2</sup>Includes General, Physical and Earth Sciences.

**Table 3.2. College Readiness Percents by Common Course Patterns**

Course Pattern	N	State			National			
		Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark
ENGLISH COURSE PATTERN								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	2,858	24	22.3	81	338,118	23	22.0	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	8,404	72	20.4	69	1,029,431	70	20.6	68
Less than 4 years of English	244	2	19.1	61	74,090	5	16.7	42
No English course/grade information reported	190	2	17.0	44	38,830	3	16.1	37
MATHEMATICS COURSE PATTERN	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark
Alg 1, Alg 2, Geom, Trig, & Calc	746	6	22.4	55	92,630	6	24.5	71
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,743	15	20.8	41	135,244	9	22.1	56
Alg 1, Alg 2, Geom, & Trig	2,069	18	18.9	21	110,962	7	20.0	35
Alg 1, Alg 2, Geom, & Other Adv Math	1,252	11	18.0	14	220,868	15	20.1	36
Other comb of 4 or more years of Math	2,950	25	22.4	55	455,130	31	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	1,914	16	16.6	5	248,747	17	17.5	12
Other comb of 3 or 3.5 years of Math	287	2	17.4	11	70,732	5	20.1	35
Less than 3 years of Math	540	5	15.8	3	105,591	7	16.5	7
No Math course/grade information reported	195	2	17.3	11	40,565	3	17.7	18
SOCIAL SCIENCE COURSE PATTERN	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark
US Hist, World Hist, Am Gov, & Other Hist	1,827	16	21.1	52	46,754	3	22.8	61
Other comb of 4 or more years Social Science	4,513	39	22.1	59	735,636	50	22.0	57
US Hist, World Hist, & Am Gov (Min. Core)	1,918	16	20.9	50	84,543	6	20.6	47
Other comb of 3 or 3.5 years of Social Science	2,679	23	21.4	54	420,236	28	21.3	52
Less than 3 years of Social Science	558	5	19.7	38	152,775	10	19.7	40
No Soc Sci course/grade information reported	201	2	18.9	32	40,525	3	17.5	26
NATURAL SCIENCE COURSE PATTERN	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	3,110	27	22.3	39	563,824	38	22.2	39
Bio, Chem, Phys	140	1	22.5	39	141,531	10	23.3	47
Gen Sci <sup>1</sup> , Bio, Chem (Min. Core)	4,070	35	20.6	23	459,833	31	20.1	21
Other comb of 3 years of Natural Science	739	6	21.2	31	41,353	3	19.8	21
Less than 3 years of Natural Science	3,434	29	18.8	11	233,215	16	18.4	11
No Nat Sci course/grade information reported	203	2	18.4	16	40,713	3	17.7	11

<sup>1</sup>Includes General, Physical and Earth Sciences.

# Section IV

# Career and Educational Aspirations

**Table 4.1. Distribution of Planned Educational Majors for All Students by College Plans**

Planned Educational Major	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N <sup>1</sup>	Percent <sup>2</sup>	Avg ACT Comp	N	Percent <sup>2</sup>	Avg ACT Comp	N	Percent <sup>2</sup>	Avg ACT Comp
Agriculture Sciences & Technologies	262	2	18.9	50	5	16.8	206	2	19.4
Architecture & Environmental Design	160	1	21.6	5	0	14.8	149	2	21.8
Business & Management	908	8	20.4	68	6	18.0	800	8	20.7
Business & Office	81	1	18.1	23	2	17.4	52	1	18.6
Marketing & Distribution	59	1	20.0	4	0	17.0	53	1	20.0
Communications & Comm. Technologies	233	2	22.1	11	1	18.2	211	2	22.4
Community & Personal Services	344	3	19.2	45	4	17.5	283	3	19.4
Computer & Information Sciences	308	3	21.7	47	4	19.1	252	3	22.2
Cross-Disciplinary Studies	7	0	22.1	0	0	.	7	0	22.1
Education	598	5	20.3	16	1	16.7	559	6	20.4
Teacher Education	483	4	20.0	11	1	16.2	449	5	20.2
Engineering	504	4	22.4	41	4	16.3	452	5	23.1
Engineering-Related Technologies	343	3	21.3	55	5	17.5	271	3	22.0
Foreign Languages	34	0	24.1	2	0	18.5	31	0	24.5
Health Sciences & Allied Health Fields	3,432	29	20.6	380	35	17.3	2,946	30	21.1
Human, Family & Consumer Science	133	1	18.5	32	3	17.4	96	1	18.9
Letters	64	1	24.0	1	0	22.0	57	1	24.1
Mathematics	41	0	24.8	1	0	14.0	37	0	24.9
Philosophy, Religion & Theology	47	0	22.6	0	0	.	47	0	22.6
Sciences (Biological & Physical)	585	5	23.2	12	1	17.2	561	6	23.4
Social Sciences	644	6	21.7	10	1	17.6	608	6	21.9
Trade & Industrial	138	1	17.2	97	9	16.7	39	0	18.6
Visual & Performing Arts	598	5	20.9	44	4	18.1	511	5	21.3
Undecided	1,402	12	20.5	121	11	16.6	1,185	12	20.9
No Response	288	2	17.9	17	2	15.3	53	1	19.5

<sup>1</sup>2-Year and 4-Year "N" counts do not reflect "Missing" and "Other" institution types, therefore they may not add up to the N count for All Students.<sup>2</sup>Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

**Table 4.2. Average ACT Composite Scores for Racial/Ethnic Groups by Post-Secondary Educational Aspirations**

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		African American/Black		American Indian/Alaska Native		Caucasian American/White		Hispanic		Asian American/Pacific Islander		Other/No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	170	16.3	3	12.3	2	15.5	157	16.5	1	14.0	0	.	7	14.7
2-yr College Degree	923	17.4	25	15.0	4	17.8	855	17.5	5	15.6	4	19.8	30	17.5
Bachelors Degree	4,752	19.9	156	17.0	16	18.8	4,317	20.0	49	19.3	37	20.1	177	20.0
Graduate Study	1,560	22.3	47	18.3	3	23.3	1,413	22.4	17	22.9	18	23.5	62	22.4
Prof. Level Degree	3,603	22.5	127	18.7	13	22.9	3,179	22.6	44	21.1	61	25.5	179	22.8
Other	265	18.8	12	16.6	0	.	234	18.9	2	16.5	1	22.0	16	19.1
No Response	423	19.0	21	16.0	3	14.0	348	19.2	2	18.5	5	23.0	44	19.0

**Table 4.3. Students' Score Report Preferences at Time of Testing**

Name	State	Number of Students			Percent of Students in College Readiness Standards Ranges						
		Total	1st Choice	2nd-6th Choice	01-12	13-15	16-19	20-23	24-27	28-32	33-36
WEST VIRGINIA UNIVERSITY	West Virginia	4,611	2,083	2,528	1	6	27	34	23	8	1
MARSHALL UNIVERSITY	West Virginia	3,127	1,139	1,988	1	8	30	33	21	7	0
FAIRMONT STATE UNIVERSITY	West Virginia	1,943	615	1,328	1	10	36	33	15	4	0
CONCORD UNIVERSITY	West Virginia	1,147	371	776	1	9	35	34	17	4	0
WEST VIRGINIA STATE UNIVERSITY	West Virginia	697	205	492	1	15	37	31	13	3	0
SHEPHERD UNIVERSITY	West Virginia	671	264	407	0	8	29	37	21	5	0
WEST VIRGINIA WESLEYAN COLLEGE	West Virginia	653	137	516	1	6	26	36	23	9	0
WEST LIBERTY STATE COLLEGE	West Virginia	628	227	401	1	9	38	32	17	4	0
UNIVERSITY OF CHARLESTON THE	West Virginia	588	89	499	1	10	28	35	21	6	0
WEST VIRGINIA UNIV INST OF TECHNOLOGY	West Virginia	583	207	376	1	14	36	30	14	5	1
GLENVILLE STATE COLLEGE	West Virginia	572	186	386	2	16	43	24	13	2	0
POTOMAC STATE COLLEGE OF WVU	West Virginia	522	222	300	2	16	39	32	9	2	0
WEST VIRGINIA UNIVERSITY AT PARKERSBURG	West Virginia	489	207	282	2	15	36	30	15	2	0
MOUNTAIN STATE UNIVERSITY	West Virginia	452	111	341	2	12	44	32	10	1	0
WEST VIRGINIA HIGHER EDUC GRANT PROGRAM	West Virginia	394	178	216	2	9	31	33	20	5	1
BLUEFIELD STATE COLLEGE	West Virginia	392	149	243	4	15	43	30	6	2	0
ALDERSON BROADDUS COLLEGE	West Virginia	382	94	288	2	12	31	34	18	4	0
DAVIS AND ELKINS COLLEGE	West Virginia	291	45	246	1	12	35	32	18	3	0
NCAA ELIGIBILITY CENTER	Indiana	281	100	181	1	11	30	33	16	9	0
WHEELING JESUIT UNIVERSITY	West Virginia	271	60	211	0	7	29	31	25	7	1
VIRGINIA TECH	Virginia	248	40	208	1	4	20	27	29	18	2
OHIO STATE UNIVERSITY THE	Ohio	246	43	203	1	4	25	22	29	17	1
SOUTHERN WEST VIRGINIA C TECH C-LOGAN	West Virginia	238	132	106	2	19	47	25	7	0	0
BETHANY COLLEGE	West Virginia	206	39	167	0	6	26	34	23	10	0
UNIVERSITY OF KENTUCKY	Kentucky	183	29	154	1	1	17	31	34	15	1
MARIETTA COLLEGE	Ohio	165	43	122	0	3	20	38	28	10	1
WEST VIRGINIA NORTHERN COMMUNITY COLL	West Virginia	163	44	119	2	16	49	25	7	1	0
NEW RIVER COMMUNITY AND TECHNICAL COLL	West Virginia	146	50	96	1	22	45	23	8	1	0
OHIO UNIVERSITY	Ohio	134	17	117	1	5	25	25	32	9	2
PIERPONT COMMUNITY & TECHNICAL COLLEGE	West Virginia	132	42	90	5	18	37	28	11	0	0
All Other Institutions		5,930	1,379	4,551	1	8	23	27	23	15	3
Total		26,485	8,547	17,938	1	9	30	31	20	8	1

# Section V

# Optional Writing Test Results

**Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity and Gender for students who took ACT Writing**

	N		English		Average ACT Scores			
					Essay		English/Writing Combined	
	State	National	State	National	State	National	State	National
<b>All Students</b>	<b>4,169</b>	<b>814,713</b>	<b>21.8</b>	<b>21.5</b>	<b>6.4</b>	<b>7.2</b>	<b>20.3</b>	<b>20.8</b>
African American/Black	130	96,225	17.3	16.5	5.8	6.4	16.4	16.5
American Indian/Alaska Native	17	5,489	19.6	18.9	5.9	6.7	18.2	18.5
Caucasian American/White	3,676	497,164	21.9	22.8	6.4	7.3	20.4	21.9
Hispanic	47	85,681	21.5	18.4	6.9	7.0	20.4	18.4
Asian American/Pacific Islander	73	44,716	24.8	23.5	7.1	7.6	23.1	22.8
Other/No Response	226	85,438	22.3	21.4	6.4	7.2	20.7	20.8
Males	1,788	357,025	21.5	21.1	6.1	6.9	19.8	20.3
Females	2,371	455,190	22.0	21.7	6.6	7.4	20.6	21.2
Missing	10	2,498	21.1	22.1	6.4	7.2	19.8	21.3



